

AccApp '07

Program (Topics and Sessions)

1. Accelerator Facilities (overview sessions) Itacil Gomes/Andres Kreiner

- 1.1. Accelerator programs (Brad Micklich)
- 1.2. International Collaboration/Programs (EU, IAEA, ISTC, OECD/NEA, ...) (Itacil Gomes)
- 1.3. National Labs (projects, R&D activities, etc.) (Laurie Waters)
- 1.4. Accelerators at universities and educational opportunities in accelerator science (Roberto Ribas)

2. Accelerator Technology Andrew Hutton

- 2.1. New developments in accelerators, cavities, and related items. (Matt Poelker/Pavel Logatchov)
- 2.2. Portable, transportable, and compact accelerators (Alan Hunt)
- 2.3. High power accelerator operational experience (George Dodson/Mike Seidel)
- 2.4. Instrumentation and control (Kay Wittenberg/Manfred Wendt)
- 2.5. Free Electron Lasers and Energy Recovery LINACs (Ryoichi Hajima)

3. Codes, Models, and Analyses Detlef Filges

- 3.1. Models for beam transport and nuclear interactions (Sylvie Leray)
- 3.2. Experimental validation (Christian Jammes)
- 3.3. Models and benchmarks (Frank Goldenbaum)

4. Accelerators in Materials Stuart Maloy

- 4.1. Materials analysis and modification (Alexander Ryazanov)
- 4.2. "Best of" from the Int'l Workshop on Spallation Materials Technology, (Stuart Maloy)
- 4.3. Positron annihilation spectroscopy (Farida Selim)

5. Accelerators in the Life Sciences Pedro Vaz/Linda DeVeaux/Maud Baylac/Wayne Newhauser

- 5.1. Radioisotope production and radiopharmaceuticals (Andy Roberts)
- 5.2. Radiation diagnostic and imaging in medicine (Chaden Djalali)
- 5.3. Particle therapy in medicine (Maud Baylac)
 - 5.3.1. Hadron therapy (Maud Baylac/Marco Pullia)
 - 5.3.2. Boron Neutron Capture Therapy (Andres Kreiner)
- 5.4. Radiation damage experiments, deactivation, biological effects, extremophiles, and life in extreme environments (Linda DeVeaux)

6. Accelerators in Safety and Security Doug Wells

- 6.1. Food Safety (Doug Wells)
- 6.2. Health physics (Eduardo Farfan)
 - 6.2.1. Radiation Dosimetry and Field-Portable Applications (Eduardo Farfan)
 - 6.2.2. Advances in Accelerators in Health Physics (Vaclav Vylet)
- 6.3. Inspection and non-proliferation technology (Phil Womble/Brandon Blackburn)
 - 6.3.1. Inspection technology for explosives: landmines and luggage (Fernando Cristancho)
 - 6.3.2. Inspection technology for fissile materials and nuclear weapons (Dick Lanza)
 - 6.3.3. Radiography/imaging and advances in detectors (Alex Barzilov)
 - 6.3.4. Materials accountability and control in nuclear fuel-recycle processes. (Fred Schultz)

7. Accelerators for Innovative Nuclear Systems Tom Ward

- 7.1. Spallation neutron sources (Guenter Muhrer)
- 7.2. Overview on Accelerator-Driven Systems and Subcritical Systems (ADS/ADSS) Concepts and Projects (e.g. RACE, XT-ADS, MYRRHA, EFIT, ADS w/ LEU ...) (Yousry Gohar/Mario Carta)
- 7.3. Waste management and transmutation (Joachim Knebel,/Luigi Mercatali)
- 7.4. Innovative nuclear fuel cycles (Werner Maschek)
- 7.5. Shielding and remote handling (Mahlon Wilson)

8. Accelerators in Industrial Applications Tony Berejka/Marshall Cleland

- 8.1. Electron beams and their industrial applications.
- 8.2. Industrial use of X-ray processing.

9. Utilization of Accelerators in Nuclear Science Marcos Martins

- 9.1. Photonuclear cross sections (Barry Berman)
- 9.2. Nuclear Data (Mark Chadwick)
- 9.3. Neutron data (Bob Haight)

10. Embedded Workshop: Fifth Annual Workshop on Accelerator-Driven Subcritical Systems Experiments . Denis Beller

- 10.1. Overview - Denis Beller and Waclaw Gudowski (RACE + Euratom ADS overview)
- 10.2. ISU RACE - Denis Beller and Christian Jammes
- 10.3. Texas RACE - Sean O'Kelly
- 10.4. Targets - Yousry Gohar,
- 10.5. International ADS Experiments - Waclaw Gudowski